

TRIAD CHEMICAL TIMES



Central North Carolina Section American Chemical Society

February Local Section Meeting

Speaker: Dr. Sherine O. Obare: "A Look at the Career Path of a Chemist who Carries the Titles: University A Administrator, Professor, and Mom"

When: Tuesday, February 19, 2019

Where: UNC-G, Sullivan Science Building, Room



Upcoming Events

February 19, 2019: Local Section Meeting, UNC-G

March 4, 2019: Senior Chemist Group Meeting; location TBD

March 19, 2019: Local Section Meeting; location TBD

April 6, 2019. Stream Cleanup 9am to noon

April 16, 2019: 19th Annual Poster Vendor Night, Syngenta

May 6, 2019: Senior Chemist Group Meeting; location TBD

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A LOOK AT THE CAREER PATH OF A CHEMIST WHO CARRIES THE TITLES: UNIVERSITY ADMINISTRATOR, PROFESSOR, AND MOM

Sherine O. Obare, PhD

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Professor of Nanoscience

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Maintaining balance between being a professor and being a mother is a rewarding experience that brings about many learning moments both professionally and personally. The skills one gains in balancing success through the tenure process to earn promotion to full professor range from the art of multitasking, to patience and lots of endurance. Often such skills are sought by university leaders and are tapped to drive important initiatives. This talk will focus on the importance of building a strategic plan for research that integrates one's role as a mother through various stages of the pathway from postdoctoral training to rising through the ranks of the professoriate and into administration. Approaches for life-long habits to maximize productivity, build networks and adapt to various environments will be shared.



The research portion of this seminar will focus on Assessing the environmental impact of anthropogenic nanoparticles. Anthropogenic nanoparticles are of great interest due to their importance in advanced technological applications. Increased usage of nanoparticles in industrial processes as well as in commercial products continues to raise global concerns regarding their adverse impact on the environment and on human health. A critical issue that arises in understanding the environmental health and safety concerns of nanoparticles lies in their method of preparation and the properties of the nanoparticles that arise as a result of different preparation techniques.¹ In order to obtain a molecular level understanding of the materials speciation and consequently transformation, it is necessary to develop well-defined and well-characterized nanoparticles. Advanced synthetic protocols developed by us have resulted in well-defined homogenous nanoparticles that enable us to conduct studies to assess the toxicity of the nanoparticles and correlate the results specifically to the particle size, shape and composition.^{2,3} The results are paramount toward understanding nanoparticle properties in the environment. The presentation will showcase examples of nanoparticles in environmental settings, and their effect on biological cells.

REFERENCES

- Purchase, D.; **Obare, S. O.**; Unsworth, J. Garelick, H. 'Chemistry and the Environment,' *Chem. Internat.* **2018**, *40*, 46-51.
- Current, K. M.; Dissanayake, N. M.; **Obare, S. O.** 'Effect of Iron Oxide Nanoparticles and Amoxicillin, on Bacterial Growth in the Presence of Dissolved Organic Carbon,' *Biomedicines* **2017**, *5*, 55.

Introducing Chemists Without Borders

By Dr. A Bakarr Kanu

Background

Chemists Without Borders is a public benefit, non-profit, international humanitarian volunteer network designed to alleviate human suffering through the use of proven chemical technologies and related skills. Its primary goals include, but are not limited to, providing affordable medicines, vaccines and medical devices to those who need them most, supplying environmental solutions (*e.g.*, water purification, green energy and chemistry) in developing countries, supporting self-reliance education, and providing disaster relief. Chemists Without Borders fosters collaborations with other organizations for mutual advancement of their various missions.

The organization seeks to mobilize the resources and expertise of the global chemistry community and its networks. Chemists and others around the world have united to work toward solutions to longstanding humanitarian issues. An invited symposium at the 2016 Fall National American Chemical Society meeting, sponsored by the Analytical Chemistry Division, addressed a range of topics related ongoing Chemist Without Borders projects. CWB has been asked to organize another symposium at the 2019 Fall ACS meeting in San Diego relating to utilization of chemistry for humanitarian benefit.

Our Vision

A global support network of volunteers providing mentoring, information and advice to ensure every person, everywhere, has affordable, consistent, and persistent access to:

- Essential medicines and vaccines

- Sufficient safe water

- A sustainable energy supply

- Education in green chemistry and business which people can apply in their daily lives and teach to others

- Safe processes in work environments where chemical hazards exist

- Emergency support, including essential supplies and technology

Current Projects:

- Clean water initiatives in Bangladesh

- Chemistry education in developing countries, Sierra Leone being the first test case

- Pharmaceutical quality in Kenya

- Water purity in remote parts of the US

To join our cause, visit <http://www.chemistswithoutborders.org>

Please support the following projects by making a donating and/or joining the team:

Chemistry Education in Developing Nations

<https://www.gofundme.com/sierra-leone-chemistry-project>

Chemistry Education in Developing Nations or Arsenic Education in Bangladesh

<http://www.chemistswithoutborders.org/index.php/donate>

Central NC ACS 19th Annual Poster Vendor Night (PVN) **News**

Poster Vendor Night will be held on Tuesday, April 16th at the Syngenta Auditorium in Greensboro from 3 to 7 pm. Easily the biggest event of the year, PVN is a unique opportunity to showcase your industrial or academic research to chemists, faculty, graduate and undergraduate students in the Piedmont Triad area, while at the same time taking in some of the great research from groups in the region. PVN is a fantastic opportunity for networking and for having in-depth discussions with a variety of vendors.

Save the Date: Stream Cleanup, Saturday, April 6, 2019 **(9am-noon)**

The CNC-ACS will be participating in the Great American Cleanup of a stream area near the ballpark in downtown Greensboro. If you are interested in volunteering, please contact TJ Mayer (tjmayer@carringers.com). Click the link below, then click "Community Cleanups", then click "Great American Cleanup."

<http://www.greensborobeautiful.org/index.php>

19th Annual Poster Vendor Night



Call for Posters

What: Posters (Academia and Industry), Vendors

When: Tuesday, April 16, 2019 from 3-7 pm

Where: Syngenta Crop Protection - Auditorium
410 Swing Road
Greensboro, NC 27409

Trade Show Networking
Refreshments Research Posters
Cash Prizes for Best Student Posters

Please contact Bill Eberle (bill.eberle@syngenta.com , 336-632-7569) or Sarah Sihvonen (sarah.sihvonen@syngenta.com , 336-632-2369) for general information.

Additional information available at : <http://cnc-ac.sites.acs.org>

Register to present a poster here by April 8th : <https://goo.gl/forms/KQegLTX3gSPu3zLf1>

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